Q1900DC-ITX

Intel® Quad-Core Processor J1900 + Mini-ITX Motherboard

Product Brief

- Intel® Quad-Core Processor J1900 + Mini-ITX Motherboard
- All Solid Capacitor design
- Supports DDR3/DDR3L 1333 memory, 2 SO-DIMM slots
- 1 PCIe 2.0 x1, 1 mini-PCIe
- Graphics Output Options : D-Sub, DVI-D, HDMI
- Built-in Intel® 7th generation (Gen 7) graphics, DirectX 11.0, Pixel Shader 5.0
- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec)
- 2 SATA3, 2 SATA2, 4 USB 3.0 (2 Front, 2 Rear), 4 USB 2.0 (2 Front, 2 Rear)
- 1 x Print Port Header, 1 x COM Port Header, 1 x DC-In Jack (Compatible with the 9~19V power adapter)
- Supports A-Tuning, XFast LAN, XFast RAM, USB Key

Detail Specification

Platform	- Mini-ITX Form Factor - All Solid Capacitor design - High Density Glass Fabric PCB
Unique Feature	ASRock Full Spike Protection ASRock Cloud
CPU	- Intel® Quad-Core Processor J1900 (2 GHz)
Memory	- Dual Channel DDR3/DDR3L Memory Technology - 2 x DDR3/DDR3L SO-DIMM Slots - Supports DDR3/DDR3L 1333/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 16GB
Expansion Slot	- 1 x PCI Express 2.0 x1 Slot - 1 x mini-PCI Express Slot * Due to the power limitation and PCIe bandwidth (x1), the VGA card is not supported.
Graphics	- Intel® 7th generation (Gen 7) graphics (Supports Intel® Quick Sync Video) - DirectX 11.0, Pixel Shader 5.0 - Three graphics output options: D-Sub, DVI-D and HDMI - Supports HDMI Technology with max. resolution up to 1920x1200 @ 60Hz - Supports DVI-D with max. resolution up to 1920x1200 @ 60Hz - Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI Port (Compliant HDMI monitor is required) - Supports HDCP with DVI-D and HDMI Ports - Supports Full HD 1080p Blu-ray (BD) playback with DVI-D and HDMI Ports
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec) - Premium Blu-ray Audio support - Supports Surge Protection (ASRock Full Spike Protection)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111GR - Supports Wake-On-WAN - Supports Wake-On-LAN - Supports Lightning/ESD Protection (ASRock Full Spike Protection) - Supports LAN Cable Detection - Supports Energy Efficient Ethernet 802.3az - Supports PXE
Rear Panel I/O	- 1 x DC Jack (Compatible with the 9~19V power adapter) - 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x D-Sub Port - 1 x DVI-D Port - 1 x HDMI Port - 2 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 2 x USB 3.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jacks: Side Speaker / Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone
Storage	- 2 x SATA2 3.0 Gb/s Connectors, support NCQ, AHCI and Hot Plug - 2 x SATA3 6.0 Gb/s Connectors by ASMedia ASM1061, support NCQ, AHCI and Hot Plug
Connector	- 1 x Print Port Header - 1 x COM Port Header - 1 x TPM Header - 1 x Chassis Intrusion Header - 1 x CPU Fan Connector (3-pin) - 1 x Chassis Fan Connector (3-pin) - 2 x SATA Power Connectors - 1 x Front Panel Audio Connector - 1 x SPDIF Out Connector - 1 x USB 2.0 Header (Supports 2 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x USB 3.0 Header by ASMedia ASM1074 (Supports 2 USB 3.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))
BIOS Feature	- 64Mb AMI UEFI Legal BIOS with GUI support - Supports Plug and Play - ACPI 1.1 compliant wake up events - Supports jumperfree - SMBIOS 2.3.1 support
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, Start8 (30 days trial), Kloudian Orbweb.ME Professional (Win 8.1 / 7)
Software and UEFI	Software - ASRock A-Tuning - ASRock USB Key - ASRock XFast LAN - ASRock XFast RAM - ASRock Restart to UEFI UEFI - ASRock Instant Flash - ASRock Internet Flash - ASRock Crashless BIOS
Hardware Monitor	- CPU/Chassis temperature sensing - CPU/Chassis Fan Tachometer - CPU/Chassis Quiet Fan (Auto adjust chassis fan speed by CPU temperature) - CPU/Chassis Fan multi-speed control - CASE OPEN detection - Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore
OS	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bi
Certifications	- FCC, CE, WHQL - ErP/EuP ready (ErP/EuP ready power supply is required)
Accessories	- Quick Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables - 2 x SATA Power Cables - 1 x WiFi Module Screw

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than the original product specification is not guaranteed.

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ASRock

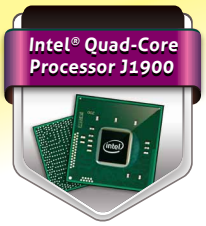
Allocate the internal space of your chassis more smartly! The DC-In jack is compatible with 9~19V wide range power adapters. Without the bulky power supply unit, this unique design allows the motherboard to fit in compact chassis.

Supports DC Adapter
(DC Adapter is not included)

Q1900DC-ITX

ASRock partners with Kloudian to make your mobile devices connect to your PC seamlessly! We offer ASRock Cloud* – a one-year subscription to Orbweb.ME Professional version, a personal cloud service which is $49.99 per year. It allows you to get connected with your PC's files, music, photos, and video clips remotely with tablets anytime, anywhere. Plus an additional one-month upgrade to Orbweb.ME Ultimate package with Remote Desktop function.

* OrbWeb ME is provided by a third party. Restriction may apply and the offer is subject to change, termination or discontinuation by the third party without prior notice. Please visit the website for further details: http://www.asrock.com/feature/cloud/index.html



Intel® Quad-Core Processor J1900 brings whole new computing experiences to life with improved performance, lower power consumption, and new multimedia capabilities.

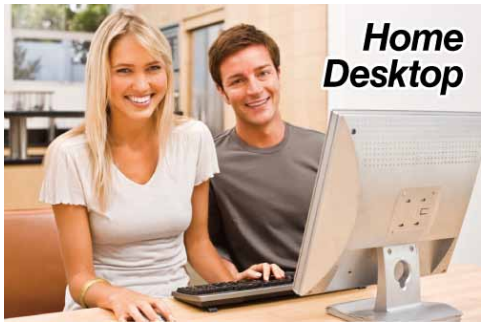
The CPU is covered by a specially designed heatsink which allows advanced heat dissipation. Utilizing an ultra quiet fanless design, this ASRock motherboard provides the most silent computing environment.

This motherboard supports not only Windows 8/8.1 but also Windows 7 32-bit/64-bit. Therefore, users have more options to install their operating systems.

Compared with other counterparts that support DDR3 low-voltage SO-DIMM only, this motherboard is capable of supporting both standard and low-voltage SO-DIMM, therefore provides more DRAM compatibilities.

The Best Motherboard for building a Mini PC

Built with an Intel® Quad-Core J1900 Processor and a Mini-ITX motherboard, this motherboard packs plenty of expandability, superb integrated performance, and abundant graphics outputs. With its excellent hardware configuration and software support, it is your ideal solution to do business work, play games, or enjoy video and music entertainment. ASRock presents you the best motherboard to build your own Mini PC!



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ASRock

All Solid Capacitor Design

All capacitors on this board are solid capacitors. With these solid caps, ASRock motherboards are allowed to perform more stably and ensure longer lifetime.

Durability

3 Graphics Outputs

Complete with all three types of most used connectors! Packed with a D-Sub + DVI + HDMI combo. Plus the HDMI port supports Full HD 1080p Blu-ray (BD) playback.

mini-PCIe Slot

The mini-PCIe slot is a convenient peripheral interface that can be used for connecting WiFi card.

High Expandability

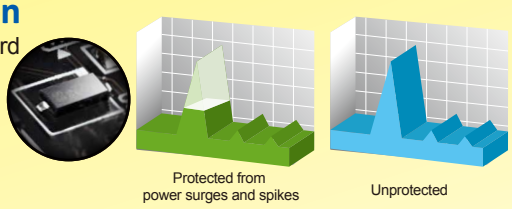
Four USB 3.0 5Gb/s ports plus two SATA3 6Gb/s ports for supporting all of your peripherals with fast data transfer speed.

FULL SPIKE PROTECTION

Surge Protection · Lightning Protection · ESD Protection

Surge Protection

Protects the motherboard from excessive surges from the power supply unit.



Lightning Protection

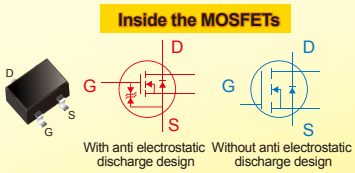
The onboard Realtek LAN chip is protected against sudden and violent voltage spikes caused by lightning.

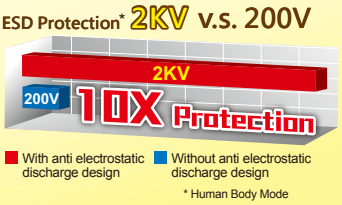
ESD Protection

USB Added ICs to protect the onboard USB ports from electrostatic discharges.

LAN Prevents the onboard LAN from being damaged by electrostatic discharges.

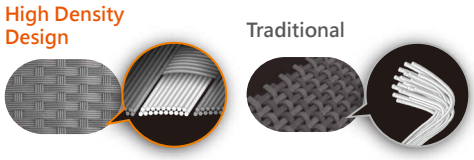
MOSFETs MOSFETs in critical areas use a special design for protecting them from electrostatic discharge during the installation process.





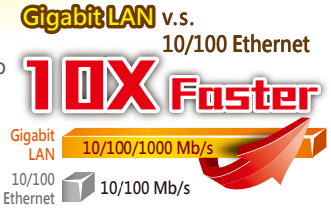
High Density Glass Fabric PCB

ASRock motherboards feature a new High Density Glass Fabric PCB design that reduces the gaps between the PCB layers to protect the mother-board against electrical shorts caused by humidity.



Gigabit LAN

This motherboard uses a Realtek gigabit LAN chip to support extremely fast internet connections.



A-Tuning

A-Tuning is ASRock's multi purpose software suite with a new interface, more new features and improved utilities, including XFast RAM and a whole lot more.